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SASAKI ARATA****(54) PENCIL-TYPE COSMETICS**

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a pencil-type cosmetics comprising a cosmetic filled within a sharpenable cylinder shaft which provides a good usability of the cosmetic filled within the cylinder shaft and a stability toward cracks, fissures or breaks that may occur during use or sharpening.

SOLUTION: The pencil-type cosmetics is produced by filling a softened cosmetic within a shaft hole of a sharpenable resinous cylinder shaft and solidifying the cosmetic. When using the cosmetic, the tip of the cylinder shaft is sharpened. The cosmetic is characterized by that it contains liquid oil component and that the liquid oil component is one or more ester compounds selected from a group of macadamia nut oil, diisostearyl malate and diglyceryl triisostearate.

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CLAIMS

[Claim(s)]

[Claim 1] They are the pencil mold cosmetics which are the pencil mold cosmetics which are filled up with the cosmetics which the axial hole of the cylinder shaft made of resin which has cutting ability was made to soften, are solidified, cut the tip side of said cylinder shaft, and use said cosmetics, and are characterized by for said cosmetics to consist of one sort of the ester compound chosen from the group which liquefied oil is contained and this liquefied oil becomes from a macadamia-nuts oil, malate diisostearyl, and Tori isostearic-acid diglyceryl, or two sorts or more.

[Claim 2] Pencil mold cosmetics according to claim 1 whose cylinder shaft made of resin is a cylinder shaft made of transparence resin.

[Claim 3] Pencil mold cosmetics according to claim 1 or 2 whose resin of the cylinder shaft made of resin is the composite material which uses an olefin system polymer as a base material.

[Claim 4] Pencil mold cosmetics according to claim 3 whose composite material which uses an olefin system polymer as a base material is the composite material of an olefin system polymer and an acrylic polymer.

[Claim 5] Pencil mold cosmetics according to claim 4 whose olefin system polymer is polypropylene.

[Claim 6] Pencil mold cosmetics according to claim 4 or 5 whose acrylic polymer is polymethylmethacrylate.

[Claim 7] Pencil mold cosmetics given in claim 1 whose loadings of liquefied oil are 40 to 80 in the cosmetics whole quantity mass % thru/or any 1 term of 6.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the pencil mold cosmetics by which it filled up with cosmetics in the cylinder shaft made of resin. It is related with the pencil mold cosmetics which were excellent in the usability of the cosmetics with which it filled up in the cylinder shaft in more detail, and were excellent in stability, such as a chip at the time of cutting or use, a check, and a crease, and by which it filled up with cosmetics in the cylinder shaft made of resin.

[0002]

[Description of the Prior Art] From the former, the pencil mold cosmetics by which the cylinder shaft was filled up with cosmetics, such as a lip stick, a lip liner, an eyeliner, eye shadow, an eye blow, a concealer, foundation, and rouge, are known instead of the heart of a pencil as pencil mold cosmetics. The cylinder shaft usually wooden in these pencil mold cosmetics is used. Although the pencil mold cosmetics which consist of a wooden stem were

manufactured by the approach of casting the cosmetics used as the heart using metal mold, inserting in the axial hole of the wooden stem divided into one half, and subsequently joining a wooden stem, they were time-consuming things. Therefore, it could manufacture by making it slushed and filled up with the cosmetics which the axial hole of a cylinder-like shaft was made to soften, and development of the pencil mold cosmetics with which it is satisfied of the quality characteristic as pencil mold cosmetics enough was desired.

[0003]

[Problem(s) to be Solved by the Invention] It is in offering the pencil mold cosmetics which this invention was made in view of the above-mentioned situation, and excelled [purpose / the] in the usability of the cosmetics with which it filled up in the cylinder shaft, and were excellent in stability, such as a chip at the time of use or cutting, a check, and a crease, and by which it filled up with cosmetics in the cylinder shaft which can be cut.

[0004]

[Means for Solving the Problem] It came to complete a header and this invention for the above-mentioned technical problem being solved by blending specific oil as liquefied oil which constitutes the cosmetics with which use for a cylinder pencil shaft the resin which can be cut, and it fills up in a cylinder pencil shaft, as a result of inquiring wholeheartedly, in order that this invention persons may solve the above-mentioned technical problem.

[0005] Namely, this invention is filled up with the cosmetics which the axial hole of the cylinder shaft made of resin which has cutting ability was made to soften, and is solidified. They are the pencil mold cosmetics which cut the tip side of said cylinder shaft and use said cosmetics. They are the pencil mold cosmetics characterized by said cosmetics consisting of one sort of the ester compound chosen from the group which liquefied oil is contained and this liquefied oil becomes from a macadamia-nuts oil, malate diisostearyl, and Tori isostearic acid diglyceryl, or two sorts or more.

[0006] The cylinder shaft made of resin of this invention can be a cylinder shaft made of transparence resin, by using the transparent cylinder shaft made of resin, can be seen and can do the thing excellent in appearance-[functional again] aesthetics -- the color of internal cosmetics can distinguish from an outside. [of the cosmetics which are the heart]

[0007] As for the resin of the cylinder shaft made of resin of this invention, it is desirable that it is the composite material which uses an olefin system polymer as a base material, and it is especially desirable that it is the composite material of an olefin system polymer and an acrylic polymer. By using these ingredients, the resin shaft excellent in cutting ability, moldability, and transparency is acquired.

[0008] In addition, as for said olefin system polymer, it is desirable that it is polypropylene, and, as for said acrylic polymer, it is desirable that it is polymethylmethacrylate. The resin shaft especially these ingredients excelled [shaft] in cutting ability and moldability is acquired.

[0009] As for the loadings of said liquefied oil in this invention, it is desirable that it is 40 to 80 in the cosmetics whole quantity mass %.

[0010] In addition, the liquid in liquefied oil and solid oil and half-solid oil, a solid, and a half-solid mean the condition in ordinary temperature among this invention. Moreover, half-solid oil is also contained in the solid oil of this invention, and oil other than liquefied oil corresponds to it.

[0011]

[Embodiment of the Invention] Hereafter, the operation gestalt of this invention is explained in full detail.

[0012] In this invention, the cylinder shaft made of resin which has cutting ability is used. Especially if it can cast by injection molding etc. easily as resin used for the cylinder shaft made of resin, it will not be limited, but since the color of cosmetics can be distinguished and it excels also in design in a very functional top even if a transparent thing does not shave a

pencil, it is desirable. Generally, vinyl system polymers, such as an olefin system polymer and an acrylic polymer, etc. are used. It is desirable in respect of the transparent resin shaft which has the cutting ability which using composite material with the composite material which uses an olefin system polymer as a base material in these especially an olefin system polymer and an acrylic polymer, or a styrene system polymer can delete easily with a commercial knife or a commercial sharpener (pencil sharpener) etc. and which has the outstanding moldability being made etc. Such composite material is the composite material which blended each polymer closely.

[0013] As for an olefin system polymer, polypropylene, such as polyethylene and high density polypropylene, ethylene propylene rubber, denaturation polypropylene, etc. are mentioned. Moreover, as for an acrylic polymer, polymethylmethacrylate, polyethyl methacrylate, polymethyl acrylate, etc. are mentioned. Moreover, as for styrene resin, polystyrene, an acrylonitrile styrene copolymer, acrylonitrile-butadiene-styrene copolymer, etc. are mentioned. In these, the composite material of polypropylene, polymethylmethacrylate and polypropylene, and polystyrene is desirable. Such composite material is almost transparent after molding. In addition, some other monomers may be mixed by such desirable composite material.

[0014] After generation of a cylinder shaft carries out the dryblend of the composite material beforehand in the case of the composite material of for example, an olefin system polymer, it is kneaded with a melting kneading machine. In melting kneading, it carries out above the temperature which an olefin system polymer fuses. subsequently, the composite material of the fused olefin system polymer -- a pressure -- a cylinder shaft -- public funds -- it pours in into a mold (injection), cooling solidification is carried out, and the injection molding of the cylinder shaft is carried out.

[0015] If the composite material of an olefin system polymer is used for the ingredient of a cylinder shaft, at the time of incineration, a toxic gas will not occur but it will be considered in environmental protection, such as air pollution.

[0016] Liquefied oil contains in the cosmetics in this invention, and this liquefied oil consists of one sort of the ester compound chosen from the group which consists of a macadamia-nuts oil, malate diisostearyl, and Tori isostearic acid diglyceryl, or two sorts or more (henceforth a specific ester compound).

[0017] When this invention blends said specific ester compound as liquefied oil, the pencil mold cosmetics which have the cutting ability of a shaft with the sufficient usability excellent in stability, such as a crease to cosmetics, are obtained. Moreover, when a cylinder resin shaft is made into transparency, what peeling of cosmetics was not visible to the inside wall surface (contact surface with cosmetics) of the transparency shaft of the pencil mold cosmetics filled up with cosmetics, and turned into what has good appearance, and was excellent also in the stability of a transparency resin shaft is obtained.

[0018] Although the loadings of said specific ester compound in this invention can be selected to arbitration, 40 in the cosmetics whole quantity - 80 mass % is desirable. It is 55 to 70 mass % still more preferably. Moreover, the rate of a compounding ratio of the macadamia-nuts oil in the case of blending two or more sorts of specific ester compounds, malate diisostearyl, and Tori isostearic acid diglyceryl can be selected to arbitration.

[0019] In this invention, it is desirable that solid oil is blended further. As an example of solid oil, higher alcohol, such as hydrocarbon system waxes, such as lows, such as solid-state fats and oils, such as cacao butter, hardened oil, Japan wax, and hydrogenated castor oil, yellow bees wax, a candelilla low, a carnauba wax, and lanolin, polyethylene wax, paraffin wax, a ceresin, and a micro crystallin wax, cetyl alcohol, cetostearyl alcohol, and behenyl alcohol, etc. is mentioned. A micro crystallin wax and yellow bees wax are mentioned as that from which a good result is obtained among these combining the specific ester compound concerning above-mentioned this invention. These solid oil improves the stability of

cosmetics.

[0020] The loadings of solid oil have desirable 10 in the cosmetics whole quantity - 45 mass %. It is 15 to 30 mass % still more preferably.

[0021] In this invention, powder, such as a pigment and color material, can be blended further. As a powdered example, talc, a kaolin, a mica, a sericite, an aluminum silicate, Silicic-acid barium, a magnesium silicate, a silica, a barium sulfate, ceramic powder, Inorganic powder, such as boron nitride; Polyamide resin powder (nylon powder), polyethylene powder, Polymethyl-methacrylate powder, polystyrene powder, cellulose powder, Organic powder, such as an organopolysiloxane elastomer and bridge formation polystyrene; A titanium dioxide, A zinc oxide, ferrous oxide (red ocher), titanin-acid iron, gamma-ferrous oxide, yellow oxide of iron, Black oxide of iron, cobalt violet, chromic oxide, cobalt blue, ultramarine blue, Inorganic pigments, such as Berlin blue; organic pigments, such as the pearl pigment; red No. 202, such as a titanium oxide coated mica, bismuth oxychloride, and a scales foil, red No. 405, orange No. 203, yellow No. 401, and blue No. 404, etc. are mentioned.

[0022] The above-mentioned powder may be blended after performing these compound processings further, processing by siliconization, metallic soap processing, fatty-acid processing, surfactant processing or the acid, alkali, and mineral, and.

[0023] Powdered loadings have desirable 0 in the cosmetics whole quantity - 35 mass %. It is ten to 30 mass % still more preferably.

[0024] It is possible to blend resin, a moisturizer, antiseptics, an antioxidant, perfume, drugs, a solvent, etc. with the cosmetics of this invention under the qualitative and quantitative conditions which do not spoil the effectiveness of this invention if needed in addition to the above-mentioned component.

[0025] Although cosmetics are preferably filled up with a back restoration method into a cylinder shaft in manufacture of the pencil mold cosmetics of this invention, it is desirable in that case to use the mold equipped with the molding hole which casts the tip configuration of cosmetics in a rocket form as a molding jig. And a molding hole, an axial hole, and the softened cosmetics are poured into the molding hole of a mold from the back end of a cylinder shaft. And the point of cosmetics will be cast by the rocket form, if a cylinder shaft is made to separate from a mold after cosmetics carry out cooling solidification.

[0026] The pencil mold cosmetics of this invention apply to a makeup part the cosmetics projected from the tip of a cylinder shaft, or they are used for them, taking with pen etc. Moreover, when the cosmetics projected from the tip of a cylinder shaft decrease, the point of a cylinder shaft is shaved off with a sharpener etc. and cosmetics are made to newly project.

[0027] The pencil mold cosmetics of this invention are applicable as a lip stick (lip color), a lip liner, an eyeliner, ikara, eye shadow, an eye blow, a concealer, foundation, rouge, etc.

[0028]

[Example] Next, an example is given and this invention is explained to a detail. This invention is not limited by this. In addition, especially loadings are mass % unless it refuses. The effectiveness test method and valuation basis which were used by this invention in advance of explanation of an example are explained.

[0029] In order to examine [stability of cosmetics at time of cutting] daily article, what paid the sample for the pencil mold cosmetics after manufacture to the thermostat under the 5-40-degree C acceleration conditions on a cycle / 1st for five days was made into the test sample. A trial continued deleting the above-mentioned sample with the sharpener for pencil mold cosmetics, and made the rejection what broke 3 times or more by the time the pencil became short. Ten pencils performed this trial.

O 0-1 is a rejection among :10.

O 2-3 are a rejection among :10.

** : 4-6 are a rejection among ten.

x: 7-10 are a rejection among ten.

[0030] I had ten [stability of cosmetics at time of use] female panels usually use a sample each for a passage (however, I have you surely use it once per day), this was continued for two weeks, and the number with generating of a crease was investigated.

O The number with generating of :crease is 0-1 person.

O The number with generating of :crease is 2-3 persons.

** : The number with generating of a crease is 4-6 persons.

x: The number with generating of a crease is 7-10 persons.

[0031] The inside wall surface (contact surface with cosmetics) of the transparence shaft of the pencil mold cosmetics filled up with [appearance of appearance] cosmetics was observed with the naked eye.

O : peeling of cosmetics cannot be seen and it is good-looking.

** : Peeling can be a little seen.

x: Peeling can be seen and appearance is bad.

[0032] The pencil mold cosmetics filled up with [stability of transparence shaft] cosmetics were gently put on the thermostat (40 degrees C and 50 degrees C) for one month, and the appearance of a transparence shaft was observed with the naked eye.

O : neither the deflection of a shaft nor milkiness is seen.

O : the deflection of a shaft and either of the milkiness are seen slightly.

** : The deflection of the shaft which clarified, and either of the milkiness are seen.

x: A shaft bends, and since it is deflection, cosmetics break.

[0033] The pencil mold cosmetics filled up with [cutting ability of shaft] cosmetics were cut with the sharpener.

O : it can cut.

x: It cannot cut.

[0034] I had the sample used for ten [usability] female panels as usual, and the luster of cosmetics and makeup **** were evaluated 3 hours after after spreading.

O 9-10 persons answer that it is fitness among :ten persons.

O 6-8 persons answer that it is fitness among :ten persons.

** : 3-5 persons answer among ten persons that it is fitness.

x: 0 - a binary name answer among ten persons that it is fitness.

[0035] [Examples 1-4]

(Process) The axial hole by the side of the back end of the cylinder shaft made of polyethylene resin was made to slush, fill up with, (back restoration) cool and solidify the ikara which consists of a presentation of Table 1 at 80-90 degrees C, and pencil mold ikara was obtained. In addition, the above-mentioned ikara carried out the heating dissolution of the solid oil under presentation, and the liquefied oil at 90-100 degrees C, and the color material after filtration and an extender were added at 85-90 degrees C, and it was distributed and mixed. Subsequently, it deaerated and obtained. Moreover, the evaluation result was shown in the same table 1.

[0036]

[Table 1]

	実施例			
	1	2	3	4
マイカクリスタリックス	2.0	2.0	2.0	5.0
セレシン	6.0	6.0	6.0	6.0
キャンデリラロウ	—	—	—	4.0
ミツロウ	5.0	5.0	5.0	5.0
硬化油	—	—	—	5.0
ポリエチレンワックス	3.0	5.0	5.0	5.0
リコパ酸ジイステaryl	20.0	23.0	30.0	30.0
トリイステaryl酸ジクアリル	20.0	10.0	20.0	20.0
ワデミナツ油	15.0	30.0	20.0	20.0
マイカ	15.25	10.25	3.25	—
雲母チタン	10.0	5.0	5.0	—
ペンタラ被覆雲母チタン	3.0	3.0	3.0	—
赤色202号	0.6	0.6	0.6	—
黄酸化鉄	0.15	0.15	0.15	—
切削時の化粧料の安定性	◎	◎	◎	○
使用時の化粧料の安定性	◎	◎	◎	○
軸の切削性	○	○	○	○
使用性(1)つや	○	◎	◎	◎
使用性(2)化粧持ち	◎	○	○	○

[0037] As shown in Table 1, each pencil mold ikara which blended the specific ester compound of this invention was excellent in the usability of ikara, and stability.

[0038] The pencil mold ikara of examples 5-8 was obtained like examples 1-4 except having used transparency composite material with the polymethylmethacrylate which changes to the cylinder shaft made of polyethylene resin of the [examples 5-8] examples 1-4, and uses an olefin system polymer (polypropylene) as a base material. An example 5 is equivalent to an example 1, and examples 6-8 are equivalent to examples 2-4 below, respectively. The evaluation result of examples 5-8 was shown in Table 2.

[0039]

[Table 2]

	実施例			
	5	6	7	8
切削時の化粧料の安定性	◎	◎	◎	○
使用時の化粧料の安定性	◎	◎	◎	○
軸の切削性	○	○	○	○
使用性 (1) つや	○	◎	◎	◎
使用性 (2) 化粧持ち	◎	○	○	○
外観の見栄え	○	○	○	○
透明軸の安定性 (40℃)	◎	◎	◎	◎
透明軸の安定性 (50℃)	◎	◎	◎	◎

[0040] As shown in Table 2, also when transparence composite material with the polymethylmethacrylate which uses an olefin system polymer (polypropylene) as a base material by this cosmetics presentation with Table 1 was used for a resin shaft, each pencil mold ikara which blended the specific ester compound of this invention was excellent in the usability of ikara, and stability. Furthermore, the appearance of an appearance was good and the stability of a transparence shaft was also excellent.

[0041] Hereafter, an example is given and explained further. These were manufactured according to the approach of an example 1. In addition, all resin used transparence composite material with the polymethylmethacrylate which uses an olefin system polymer (polypropylene) as a base material.

[0042]

Example 9 Lip color Combination component Loadings (mass %)

A micro crystallin wax 2.0 ceresins A 6.0 candelilla low 4.0 yellow bees wax 5.0 polyethylene wax A 3.0 palmitic-acid dextrin 1.0 malate diisostearyl 40.5 Tori isostearic acid diglyceryl 15.0 macadamia-nuts oil 11.0 red No. 202 2.4 yellow [aluminum] No. 5 2.1 yellow-oxide-of-iron 6.5 black oxide of iron 1.5 [0043]

Example 10 Lip color Combination component Loadings (mass %)

A micro crystallin wax 5.0 ceresins 9.5 hardened oil 5.0 malate diisostearyl 33.0 Tori isostearic acid diglyceryl A 20.0 macadamia-nuts oil 15.0 red No. 202 2.4 yellow [aluminum] No. 4 2.1 yellow-oxide-of-iron 6.5 black oxide of iron 1.5 [0044]

Example 11 Lip color Combination component Loadings (mass %)

Yellow bees wax 2.0 cetostearyl alcohol 22.0 hardened oil 8.0 malate diisostearyl 35.2 Tori isostearic acid diglyceryl A 20.0 macadamia-nuts oil 5.0 red No. 202 1.8 yellow [aluminum] No. 4 2.4 yellow oxide of iron 1.6 black oxide of iron 2.0 [0045]

Example 12 Ikara Combination component Loadings (mass %)

A micro crystallin wax 2.0 ceresins A 6.0 candelilla low 4.0 yellow bees wax 5.0 polyethylene wax 3.0 malate diisostearyl 10.0 Tori isostearic acid diglyceryl A 30.0 macadamia-nuts oil 15.0 micas 0.25 mica titanium 10.0 red No. 226 0.75 titanium oxide 3.0 red ocher 3.0 silicic acid anhydrides The end of 5.0 nylon 3.0 [0046]

Example 13 Eyeliner pencil Combination component Loadings (mass %)

A ceresin 6.0 yellow bees wax The end of 2.0 polyethylene A 3.0 candelilla low A 3.0 micro crystallin wax 5.0 malate diisostearyl 15.46 Tori isostearic acid diglyceryl 30.0 macadamia-nuts oil 10.0 sorbitan sesquioleate 0.5 natural vitamin E 0.04 micas 10.0

polymethylmethacrylates 5.0 blue 1 No. AL 2.0 mica titanium 8.0 [0047] Examples 9-13 excelled [each] in the usability of cosmetics, and were excellent in stability, such as a chip at the time of use, a check, and a crease, at the time of cutting. Moreover, peeling of cosmetics

was not visible to the inside wall surface (contact surface with cosmetics) of a transparence shaft, it was good-looking and it was further excellent also in the stability of the shaft made of transparence resin.

[0048]

[Effect of the Invention] As mentioned above, the pencil mold cosmetics which were excellent in the usability of the cosmetics with which it filled up in the cylinder shaft according to this invention as explained in full detail, and were excellent in stability, such as a chip at the time of cutting or use, a check, and a crease, and by which it filled up with cosmetics in the cylinder shaft made of resin are obtained. Moreover, what whose peeling of cosmetics was not [what filled up with the olefin system polymer the transparent cylinder shaft made of resin generated with the composite material used as a base material] visible to the inside wall surface (contact surface with cosmetics) of a transparence shaft, and it turned into what has good appearance, and was excellent also in the stability of the shaft made of transparence resin is obtained.